

CLAIMS

1. System for extracting, dosing, dispensing with controllable, regular and continuous flows, liquids, creams, chocolates, janes, frut squashis and the like, from containers thereof, by means of a multicomponent device in the absence of pressing, or nebulizing gas, said system generally comprising a tube, sac, balloon and bottle, characterized by a hollow thick rigid rod (TU, TU') provided with: - inlet-outlet holes (FO, OL) for said liquid or cream and with thermosealable terminal means to seal or fit with the female-shaped ends of a thermoplastic liquids containing sac on which is shod, an elastomeric balloon or vesica.
2. System according to claim 1, characterized in that said rod is provided at its head with a collar having annular protrusions made of a thermoplastic material having a softening point lower than the melting point of the rod forming material.
3. System according to claim 1, characterized in that said rod (TU, TU') has a bottom male top-like end (TO) to fit in an inversely shaped female cavity in the bottle container.
4. System according to claim 1, characterized in that said rod is provided with a bulkhead (BH) substantially beneath the in-out-let holes (OL) defining, within the hollow rod, a major blind portion (BL) between said (BH) and the top shaped bottom terminal (TO).
5. System according to claim 4, characterized in that a small cilynder (CC) covered with rings (MR) made of high friction material is movably inserted in said blind portion (BL) of the rod, whereby few up - down strokes of said high friction rings on (CC) generate sufficient heat to enhance the floability of the liquids or creams within the sac.
6. System according to claim 1, characterized in that said thermoplastic sac (SAU) is provided with a bottom female cavity (FC) to accomodate the male top shaped end (TO) of the rod; and with an open mouth (B) to fit and seal on the low softening material of the collar protrusions (MR).
7. System according to claim 1, characterized in that the sac (SAU) has an umbrella like structure.

8. System according to at least one of the above claims, characterized in that the elastomeric balloon or vesica (PA') has a bottom female cavity (FC') to accomodate the bottom male top-shaped terminal (TO) of the rod.
9. Method for the embodiment of the system according to the above claims, comprising at least following steps: - I) assembling a hollow rod with a tap and cap; - II) sealing a thermoplastic sac at the upper and lower ends of said rod; - III) fitting an elastomeric balloon or vesica (PA) well shod on the thermoplastic sac (SA); - IV) inserting in a bottle the assembly of the rod carrying tap and cap, of the thermoplastic sac and of the elastomeric balloon; and - V) filling the sac.
10. Method according to claim 9, comprising the steps of: - providing the hollow rod with: a) a male top-shaped terminal at the bottom thereof, b) a collar having ring protrusions made of a material with a low softening point at its upper portion, c) an upper balk-head, d) a movable cylindrical body having high friction annular protrusions; - welding the mouth of an umbrella like sac to said low softening ring protrusions and welding or fitting said male terminal of the rod to a female cavity in the bottom of said umbrella sac; - inserting the so assembled rod-sac within an elastomeric balloon also provided with a bottom female cavity; - applying a tap and a cap on the rod head; - inserting the rod-sac-balloon-tap-cap assembly within a bottle or bag-box, and; filling the sac with the liquids, creams and the like, to be dispensed.